

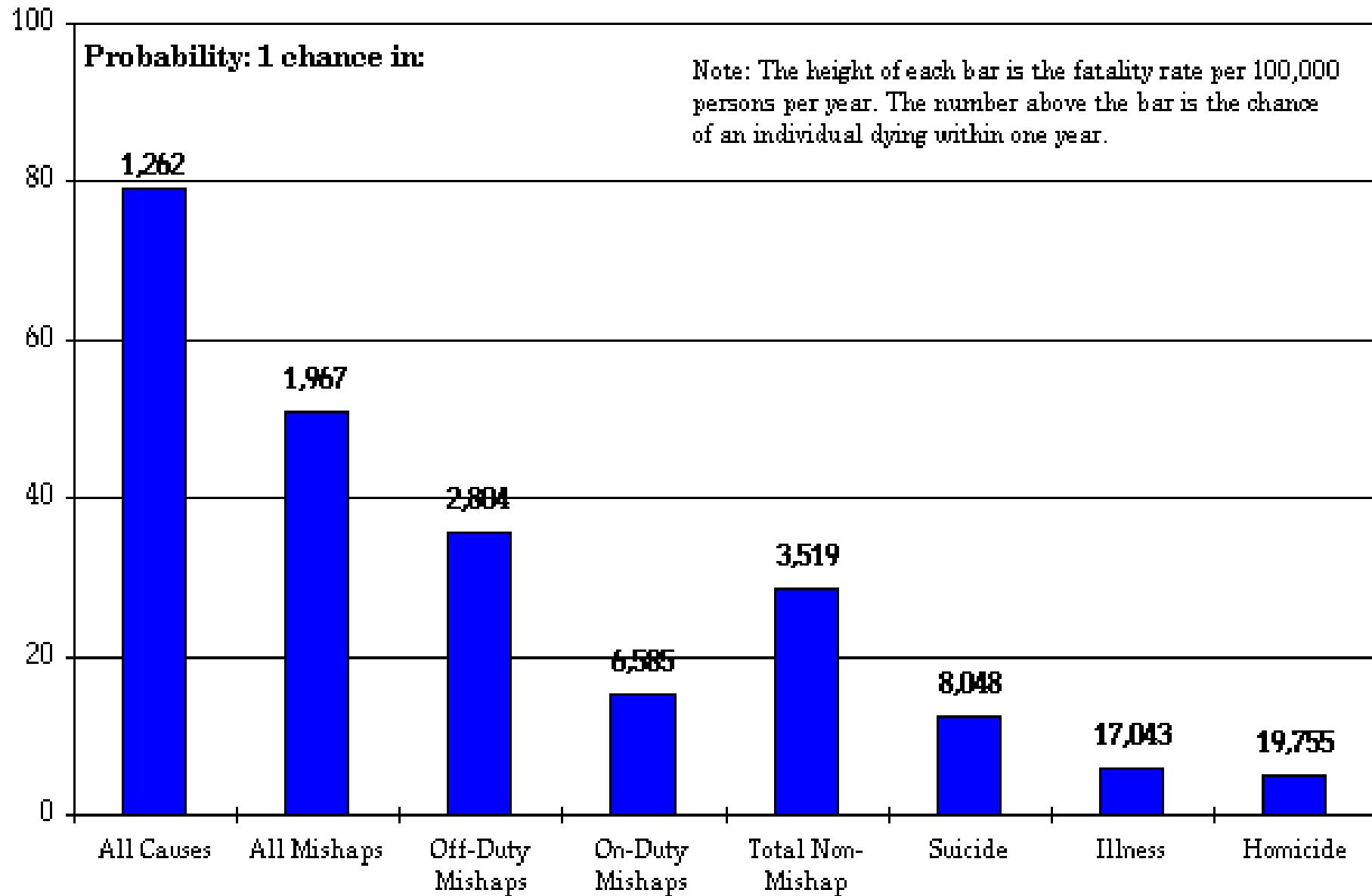


Traffic Safety Programs

Lynn Blevins
Naval Safety Center

Your Probability of Dying This Year

Marine Military Personnel



Marine Corps

Your Probability of Dying This Year

Mishaps: 1 - 1,967

Off Duty: 1 - 2,804

On Duty: 1 - 6,585

Non-Mishaps: 1 - 4,282

Suicide: 1 - 8,048

Illness: 1 - 17,043

Homicide: 1 - 19,755

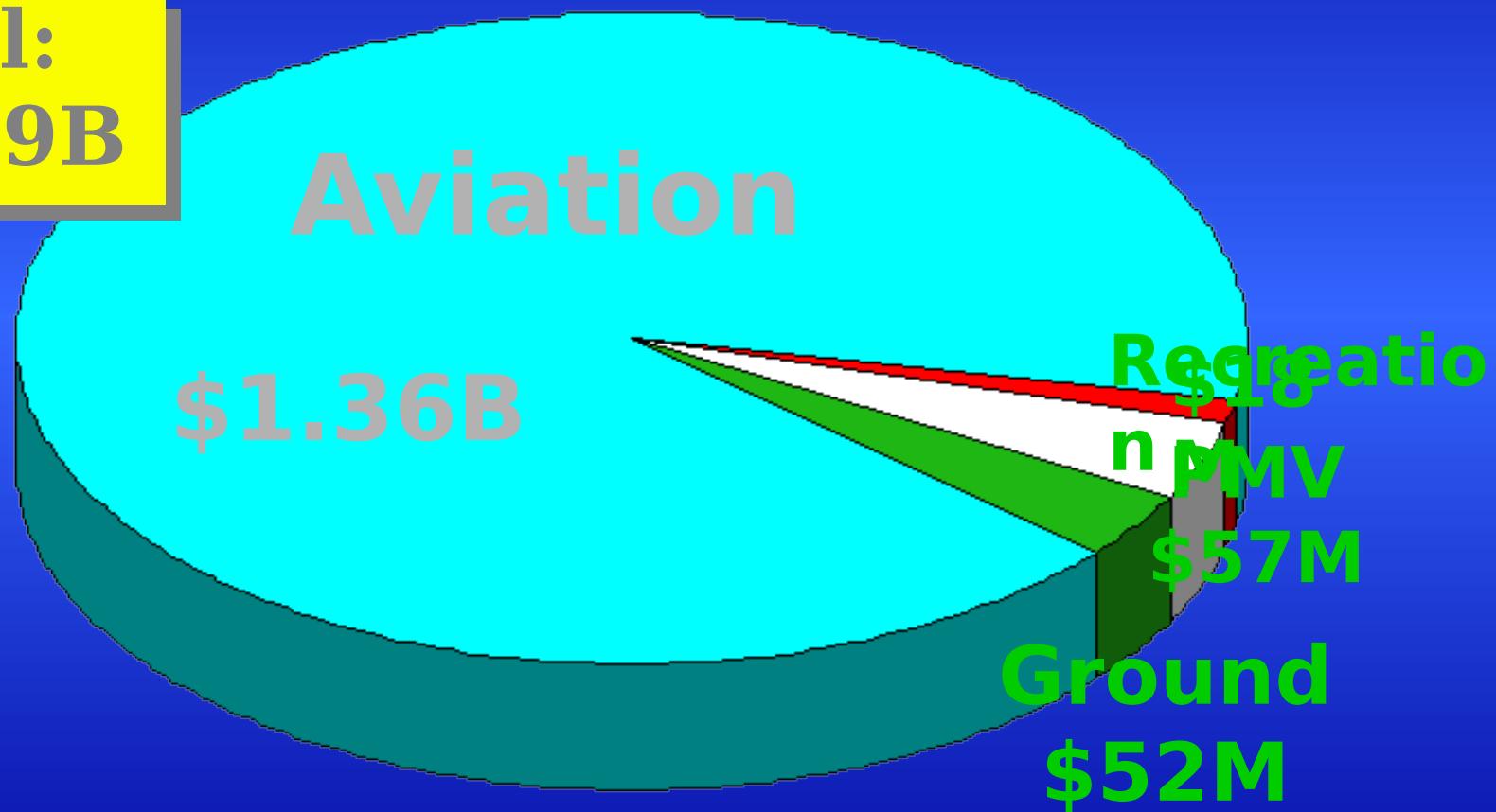
Winning the Lottery: 1 - 7,059,052

6003M2

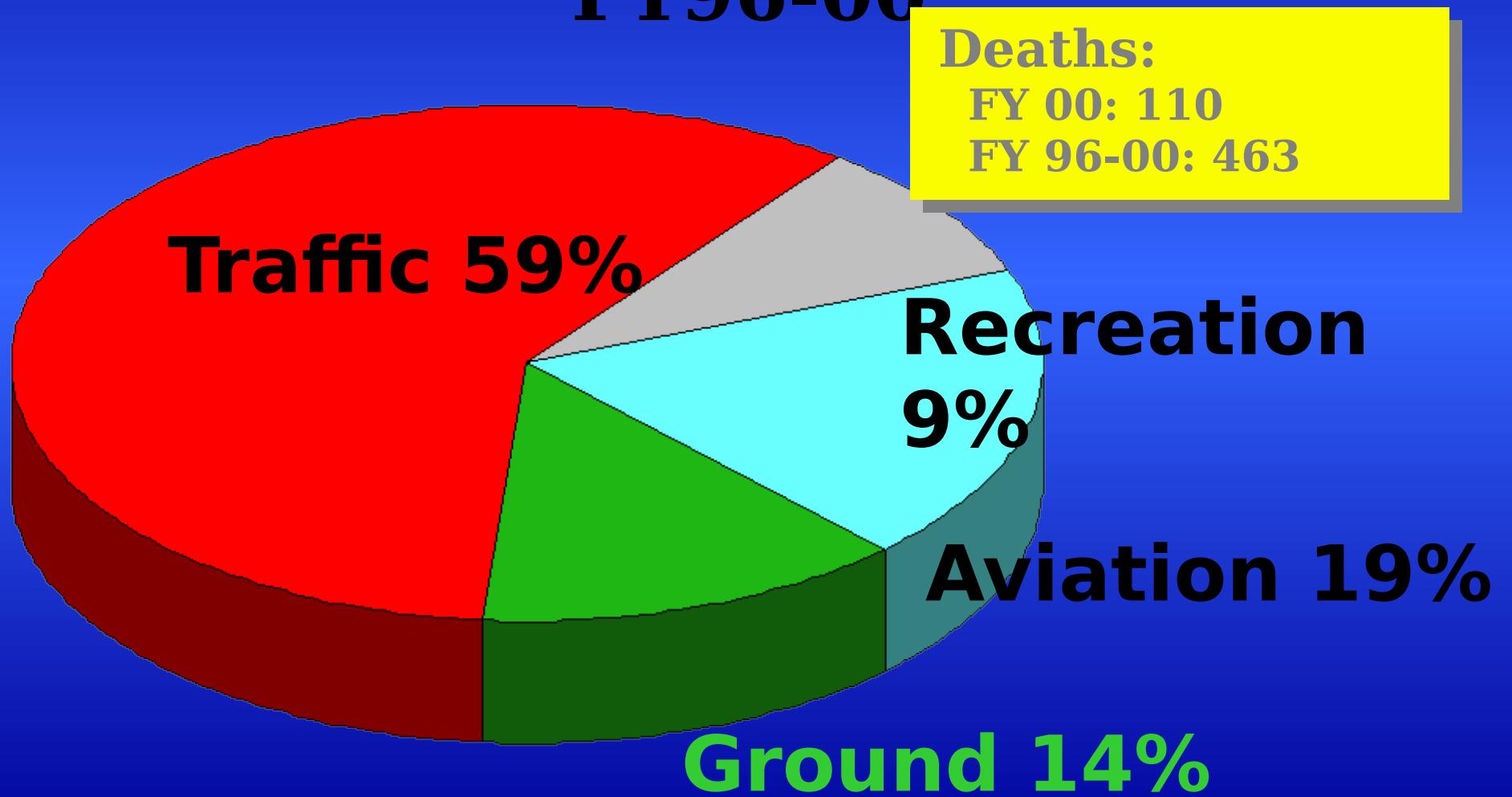
Cost of Mishaps

Marine Corps, FY96-00

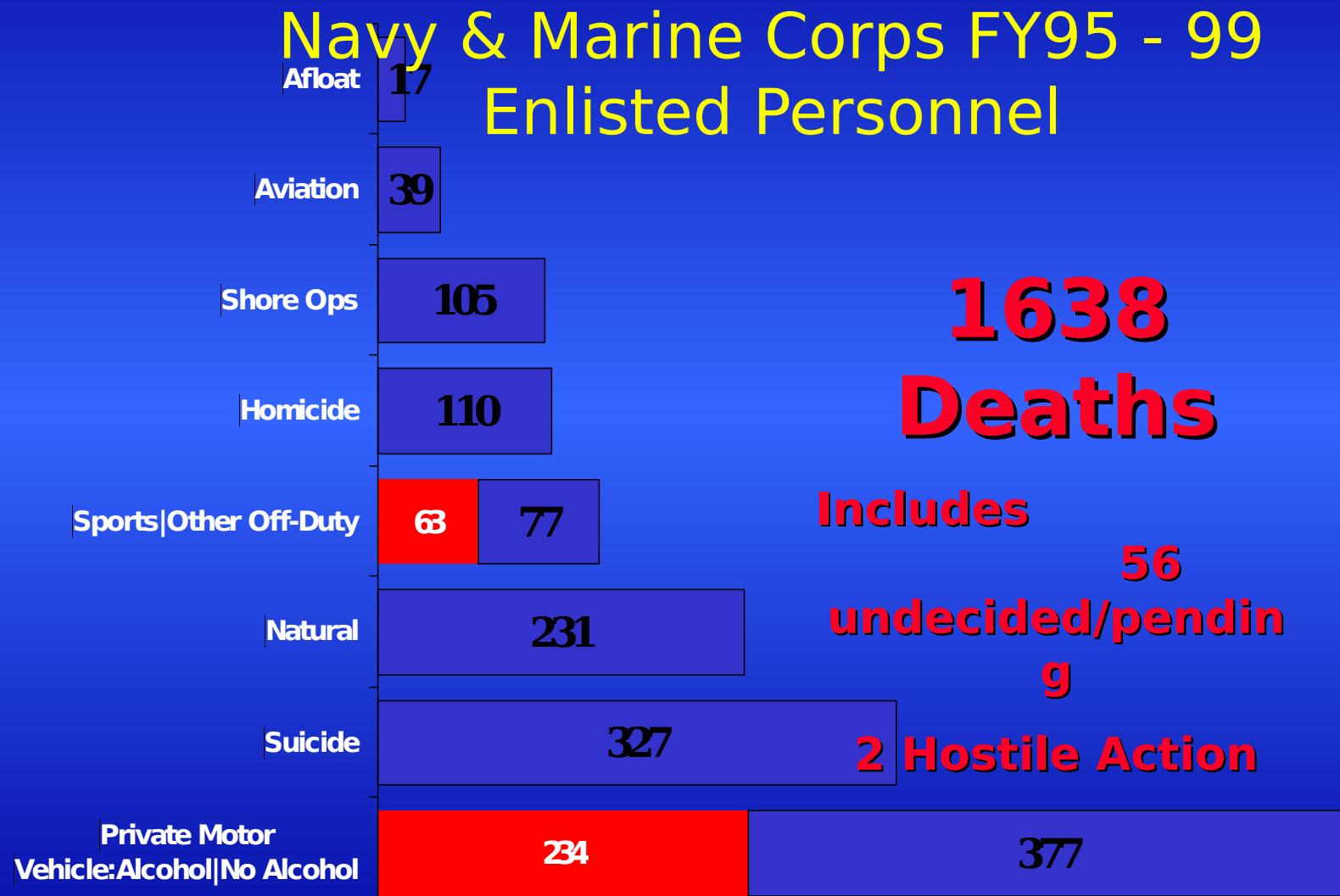
Total:
\$1.49B



How People Died in Mishaps Marine Corps, FY96-00



Top Causes of Death



Top Causes of Death

Navy & Marine Corps FY95 - 99
Officers



208

Deaths

Includes

7

undecided/pending
g

1 Hostile Action

HOW WE LOST A PLATOON OF MARINES

Rank	Age	Day	Hour	Vehicle	Seatbelt/ Helmet	Alcohol	State	Sex	Fatigue	Speed
Pvt.	19	Su	0500	4-wheel		Yes	CA	M		
PFC	21	We	1400	4-wheel			NC	F		
SSgt.	28	We	1400	4-wheel			NC	M		
GySgt.	40	Su	1100	4-wheel	No		SC	M		
Sgt.	24	Mo	1600	MC			CA	M		
MSgt.	39	Tu	2400	4-wheel		Yes	GA	M		
Pvt.	20	Su	2000	4-wheel	No		FL	M		
Cpl.	22	Su	2200	MC	No		HI	M		
PFC	19	Sa	0400	4-wheel		Yes	NC	M		
Cpl.	22	Su	0500	4-wheel	No	Yes	NY	M		
Sgt.	28	Su	0800	4-wheel	No		AZ	M	Yes	Yes
LCpl.	21	We	2400	4-wheel			TN	M		
PFC	19	Th	0400	4-wheel			FL	M	Yes	
Cpl.	21	Th	1500	4-wheel			NY	M		
Cpl.	25	Su	0300	4-wheel	No		NC	M		
LCpl.	28	Fr	2200	4-wheel	No		NC	M	Yes	
Cpl.	27	Su	1400	4-wheel			CA	M	Yes	
GySgt.	36	Fr	2400	4-wheel	No	Yes	NC	M	Yes	
Cpl.	24	Th	0200	4-wheel	No	Yes	MI	M		
LCpl.	20	Su	0800	4-wheel	No		NC	M	Yes	
LCpl.	21	Fr	0700	4-wheel			VA	M	Yes	
PFC	18	Mo	2300	4-wheel	No	Yes	FL	M	Yes	
LCpl.	20	Mo	2000	4-wheel			NC	F		
LCpl.	21	Tu	1900	MC			CA	M		
PFC	23	Sa	0700	4-wheel	Unknown		CA	M		
LCpl.	20	Tu	0600	4-wheel			NC	M		
LCpl.	19	Sa	0600	4-wheel			CA	M		
LCpl.	24	Su	0300	4-wheel	No		WS	M		
LCpl.	19	Th	2200	4-wheel	No		NC	M		
Sgt. Maj.	45	Sa	1900	MC	No	Yes	SC	M		
LCpl.	20	Su	0600	4-wheel	No	Yes	CA	M		
LCpl.	21	Mo	1500	4-wheel		Unknown	SC	M		
LCpl.	27	Tu	2400	4-wheel	No		NC	M		
LCpl.	20	Tu	0600	4-wheel			NC	M		
LGpl.	24	Tu	0600	4-wheel			CA	M		
LCpl.	26	Th	2300	MC			CA	M		
LCpl.	22	Su	2000	4-wheel	No	Yes	NC	M		
LCpl.	21	Mo	0500	4-wheel		Yes	GA	M		
PFC	21	Tu	0400	4-wheel		Yes	AL	M	Yes	
LCpl.	22	Su	0200	4-wheel		Yes	CA	M		
DT3	21	Tu	0600	4-wheel		Yes	DA	M		
LCpl.	22	Sa	0100	MC		Yes	HI	M		
PFC	19	Sa	0400	4-wheel		Yes	PA	M	Yes	
Sgt.	28	Fr	1700	4-wheel		Yes	PA	M		
Cpl.	20	Sa	0700	4-wheel			WV	M		
LCpl.	22	Sa	2400	Ped		Yes	NC	M		
SSgt.	27	We	1500	4-wheel	No	Yes	FL	M		
LCpl.	20	Fr	2300	MC	No	Yes	LA	M		
Sgt.	23	Su	0300	Ped		Yes	NC	M		
PFC	21	Sa	0300	4-wheel		Yes	MS	M		
PFC	21	Sa	0300	4-wheel			MS	M		

THE PROBLEM.....





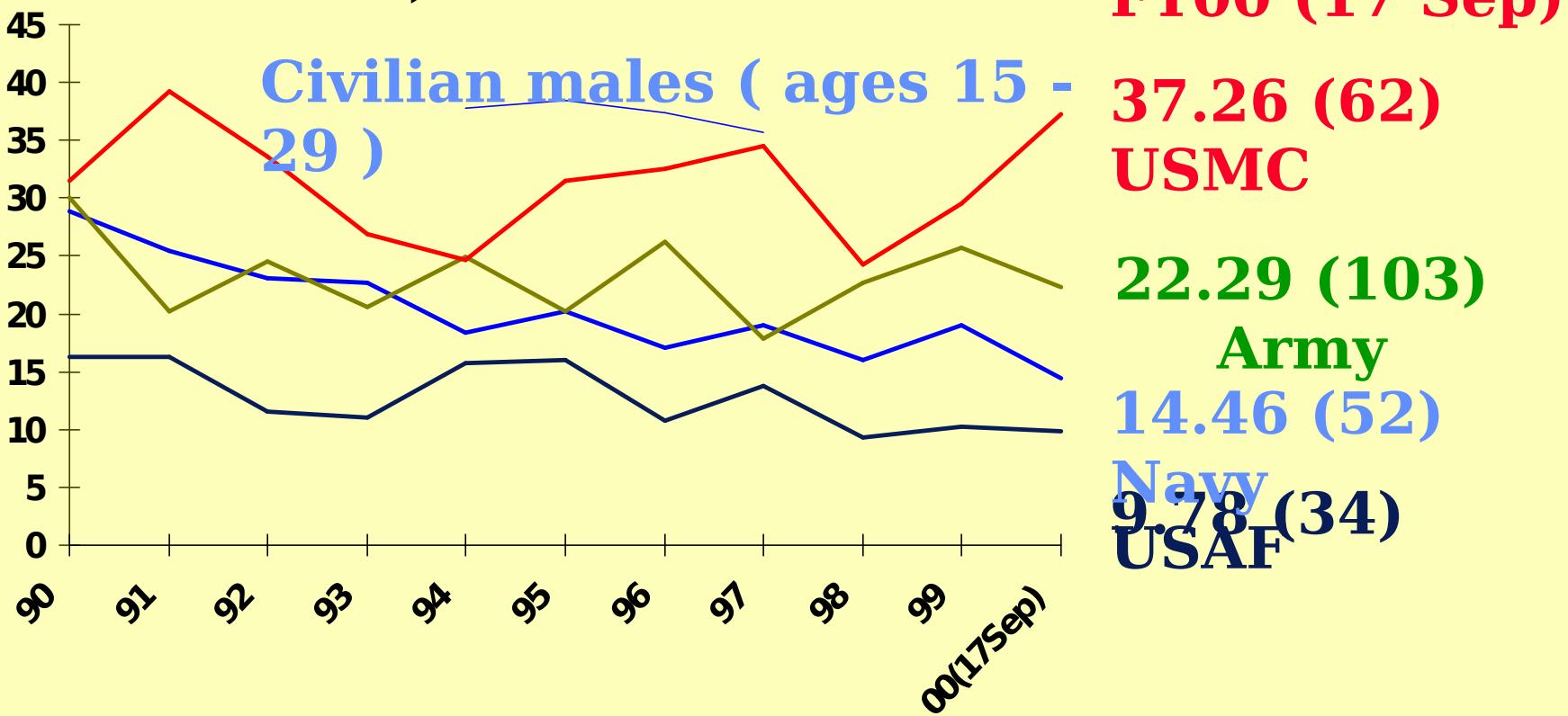




The Dallas Morning News: William S.



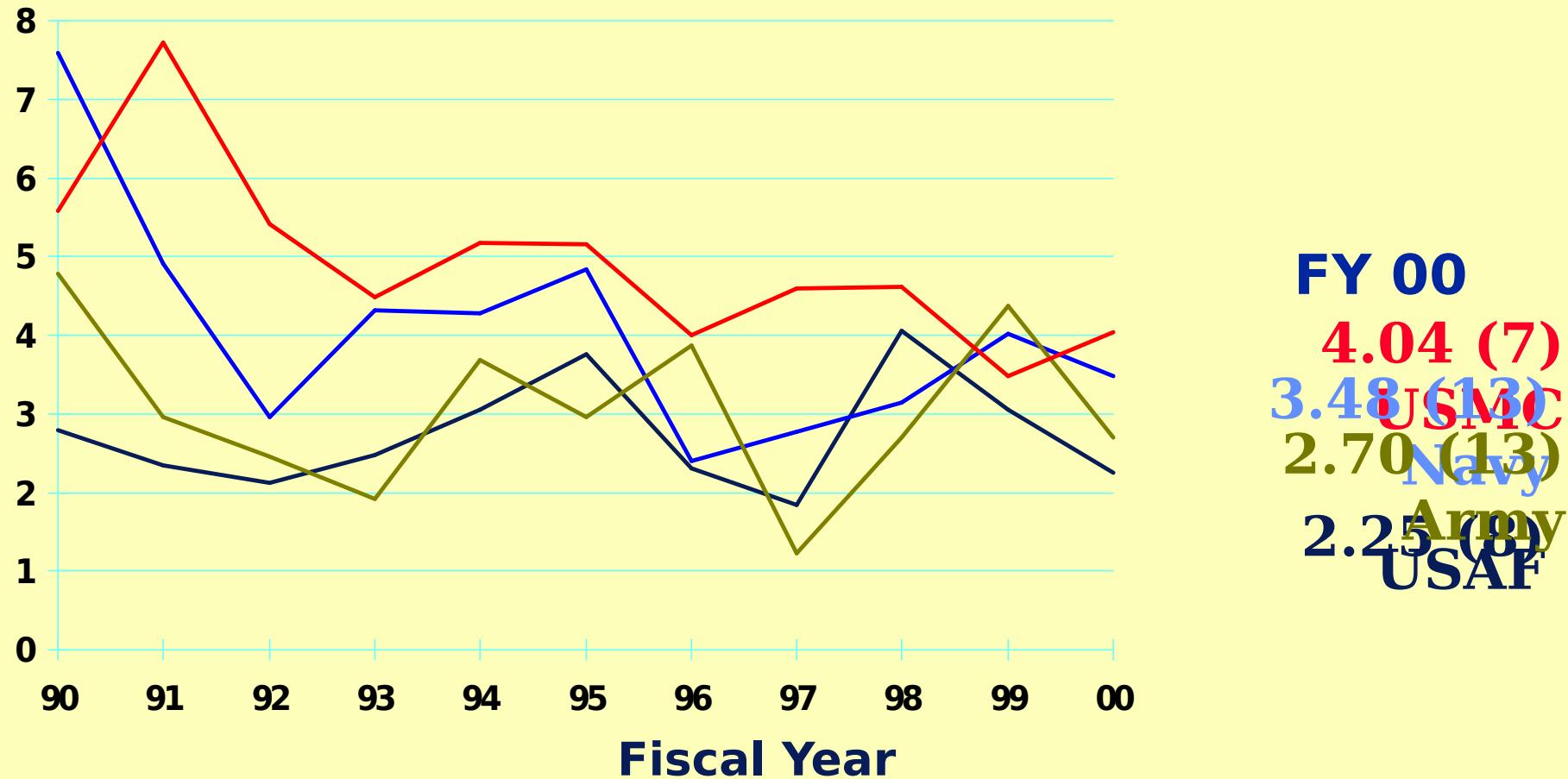
Traffic Death Rates (Per 100,000 Personnel)



Fiscal Year

Includes passengers, motorcycle riders, pedestrians and bicyclists (struck by vehicle).

Motorcycle Death Rates All Services



Includes motorcycle drivers and passengers

**Deaths per 100,000 population (estimated = per 10,000
drivers)**

Marine Corps Fatal Factors in FY 98-00 Traffic Deaths

*Percentage
of Mishaps*

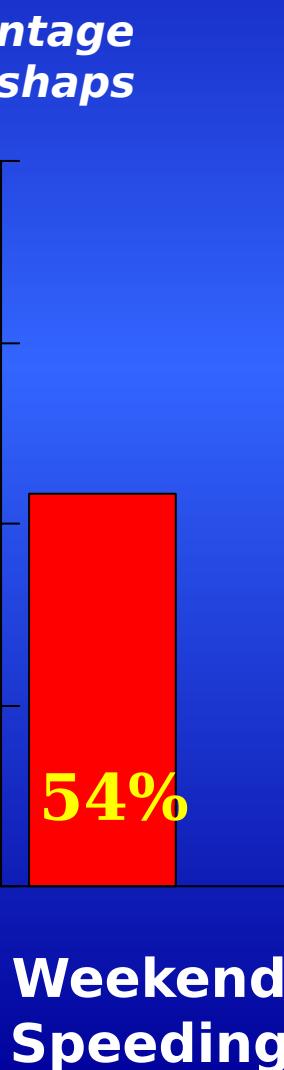
100

75

50

25

0



155
DEAD!
!

Fatigue: 24%

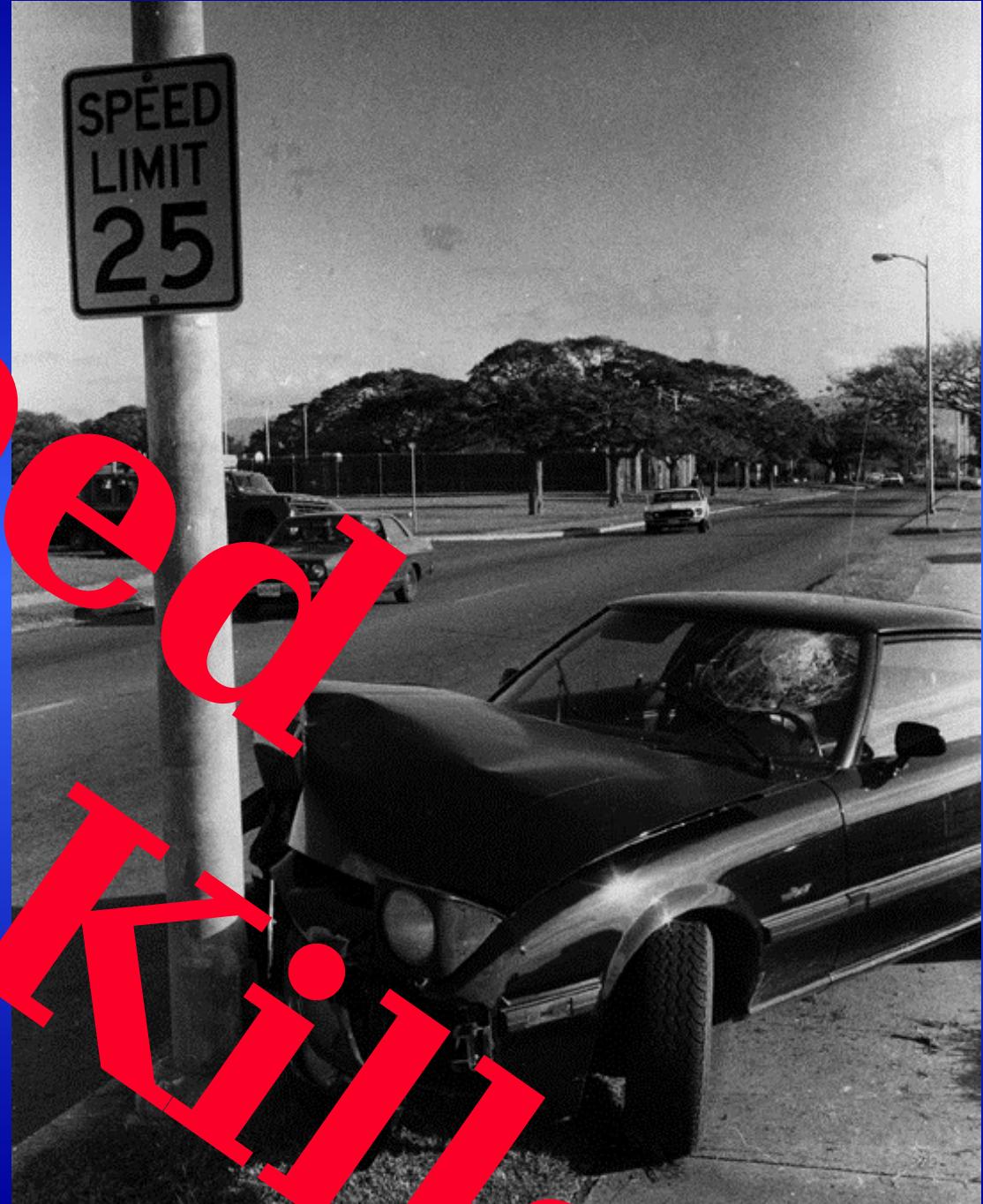
41%

3013M

POV Deaths 98 - 00 Marine Corps

FY98	FY99	FY00	Total
42	51	62	155
95 of them died at <u>night</u>			
84 died on the <u>weekend</u>			
58 weren't wearing a <u>safety belt</u>			
60 of them died in a <u>speeding vehicle</u>			
50 died because of <u>drinking</u>			
35 were killed by <u>fatigued drivers</u>			

Speed
kills



Fighting the Navy and Marine Corp's Top Killer



* Leadership
* Education

* Accountability
* Safe Communities



**Seatbelts Work...
Fact or Fiction?**

TRAVEL TIPS FOR SAFE DRIVERS

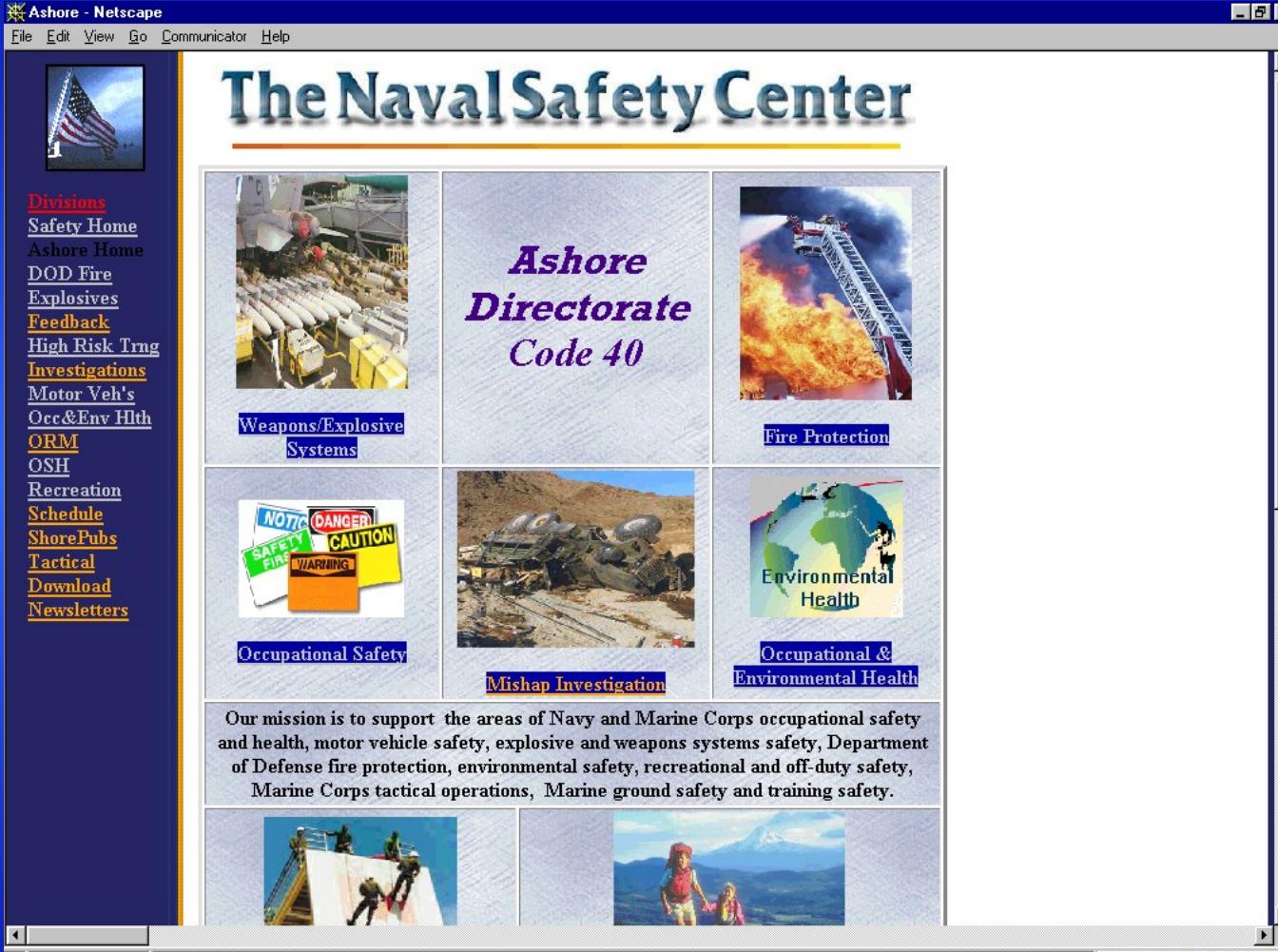
1. Don't drink and drive.
2. Use a Designated driver.
 3. Wear seatbelts.
4. Obey the speed limit.
5. Don't drive when you are tired.
6. Take frequent rest breaks.
7. Adjust speed for conditions
8. Don't follow too close.
9. Maintain your vehicle.
10. Drive defensively.

ARRIVE ALIVE!

Our World Wide Web

Ashore - Netscape

File Edit View Go Communicator Help



The Naval Safety Center

Ashore Directorate Code 40

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Occupational Safety

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Environmental Health

Our mission is to support the areas of Navy and Marine Corps occupational safety and health, motor vehicle safety, explosive and weapons systems safety, Department of Defense fire protection, environmental safety, recreational and off-duty safety, Marine Corps tactical operations, Marine ground safety and training safety.

Document: Done

Home Web Page Address:

www.safetycenter.navy.mil



Operational Risk Management



What is ORM?

A *process* to assist you in performing everyday tasks on and off duty *safely* and *efficiently*!
Modify the process to fit the situation while still identifying and assessing risks and developing controls to reduce the hazards.



REFERENCE

MCO 3500.27



“ My intent is to apply ORM throughout the entire Marine Corps. ORM will be integrated into our academic, leadership, tactical and operational regimens. Our goal is to institutionalize the ORM process so that all Marines apply it -- as a matter of course -- in their planning, training and operations. To that end, Commanders shall incorporate ORM into their operational routines.”

-GEN C. C. Krulak, USMC (RET)



COST OF MARINE AND NAVY MISHAPS

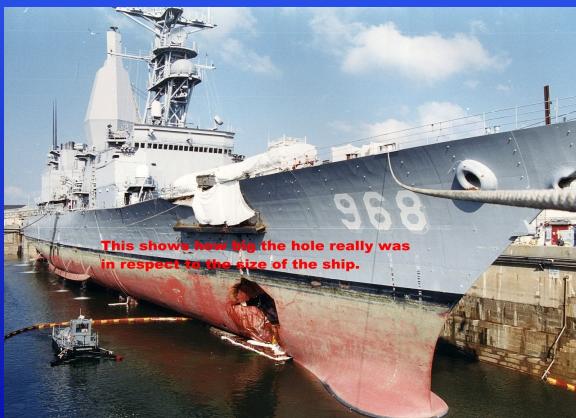


FY 95-99

\$4 billion

1,045 deaths

9,200 injuries



86% of all mishaps are related to human error -

ORM can bring numbers down





CHARACTERISTICS OF RISK

Risk is always present

Risk can be managed

Risk is shared

**Perceived risk differs from actual
risk**



ELEMENTS OF ORM



□ **3 Levels of Application**

□ **4 Principles**

□ **5 Steps**



3 LEVELS OF APPLICATION



□ **1= TIME CRITICAL**
(90% of the ORM processes are “On The Run”)

□ **2= DELIBERATE**
(Complete 5 step process)

□ **3= IN DEPTH**
(Other considerations outside the local chain of command)



4 PRINCIPLES

- 1. ACCEPT RISKS WHEN BENEFITS OUTWEIGH THE COSTS**
- 2. ACCEPT NO UNNECESSARY RISK**
- 3. ANTICIPATE & MANAGE RISK BY PLANNING**
- 4. MAKE RISK DECISIONS AT THE RIGHT LEVEL**



5 STEPS

- 1. Identify hazards**
- 2. Assess hazards**
- 3. Make risk decisions**
- 4. Implement controls**
- 5. Supervise**



SUMMARY

ORM is a *process* ... *NOT* a program
Decision making tool to:

- * Increase ability to make informed choices
- * Reduce risks to acceptable level

ORM *must* become an inherent way
of doing business

2000 HOLIDAY FATALITY FORECASTS MOTOR VEHICLE DEATHS USMC

PREDICTED DEATHS

MEMORIAL DAY	2	1
4TH OF JULY	1	2
LABOR DAY	1	3
THANKSGIVING	1	?
CHRISTMAS	2	?
NEW YEAR'S	1	?



ORM POC

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